

Kelly J. Krieg, P.E. | Principal Engineer - Large/Complex Loss

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Professional Summary:

Ms. Krieg has over 19 years of experience in structural engineering, materials science and building science, including higher education facilities management, metal wall and roof panel and aluminum curtainwall product research and development and design of masonry and timber structures. Her areas of forensic expertise include failure analysis, building enclosure and structural condition evaluation, metallurgy, premises liability, and construction defect and subrogation investigation.

Ms. Krieg has evaluated roof system failures, structural deficiencies, water intrusion cause and origin, pool failures, historic church roof and foundation conditions, retaining wall failures and maple basketball floor condition assessments. She has performed assessments following tornadoes, Hurricane Ian, tree and vehicle impacts, structure fires, sink holes, pipe freezes, demolition, explosions, and other related events. She has performed code assessments for trips and other falls. She has provided depositions and legal testimony.

- Structural Engineering
- Material Science
- Building Science
- Construction Defects
- Property Condition Assessments
- Building Envelope Assessments and Consulting
- Premises Liability

Licenses and Certifications:

Professional Engineer, Pennsylvania, License # PE077554

Professional Engineer, New York, License # 103166

Professional Engineer, Florida, License # PE87916

Professional Engineer, Maryland, License # 53978

Professional Engineer, Ohio, License # PE.84689

Professional Engineer, West Virginia, License # 023570

Professional Engineer, Kentucky, License # 37272

Professional Engineer, Michigan, License # 6201312026

Professional Engineer, Colorado, License #PE0053724

Project Experience:

High School Fire Structural Assessment, Pennsylvania

Performed a structural assessment of a 75-year-old high school auditorium, including masonry walls and steel roof trusses, following a fire. Assisted the client in determining that the structure was not safe for occupancy and in facilitating demolition of the auditorium, while protecting adjacent structural elements.

Catholic church assessment after a tornado, New Kensington, Pennsylvania

Performed a structural assessment of an over 130-year-old church that had sustained roof damage from a EF0 tornado. Assisted the client in determining what remaining large, timber roof framing members were safe to remain, and how to repair those that were damaged. Facilitated swift replacement of the roof, to protect the plaster interior of the sanctuary, mosaics and other fixtures.

Partial building collapse, Pittsburgh, Pennsylvania

Performed a structural assessment and cause and origin investigation of an over 100-year old row structure. Assisted the client in evaluating the remaining structure, as well as construction documents and permits of past work, to determine subrogation potential.

Retail store code evaluation, numerous locations, Western Pennsylvania

Cold evaluations of sidewalks, ramps and egress paths at numerous big box retail stores for liability cases.

Court Qualifications/ Depositions:

Litigation CV available upon request.

Professional Experience:

EFI Global, Principal Engineer, 2023 - present

Rimkus-Senior Consultant, Property, 2019 – 2023, Consultant – Property, 2018 - 2019

Pie Consulting & Engineering, Project Manager, Building Science Group, 2018

University of Pittsburgh Facilities, Project Manager, 2016 – 2018

CENTRIA, Structural Engineer, 2009 – 2016, Sustainability Associate, 2011-2016,
Product Engineering Manager, 2015 – 2016

Civil & Environmental Consultants, Engineer, 2006 - 2008

Three Rivers Aluminum Company (TRACO), Estimator, Product Engineer, 2004 - 2006

Avbel Engineering, Engineer in Training, 2004

Education:

Master of Science, Materials Science and Engineering, University of Pittsburgh, Pittsburgh, PA, 2020.



Master of Architectural Engineering, Architectural Engineering, Structural Option, The Pennsylvania State University, University Park, PA, 2003.

Bachelor of Architectural Engineering, Architectural Engineering, Structural Option, The Pennsylvania State University, University Park, PA, 2003.

Affiliations:

International Institute of Building Enclosure Consultants (IIBEC) – Consultant, Region I